

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/236,468

DATE: 02/10/1999
TIME: 16:12:12

INPUT SET: S30588.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Soppet, Daniel R
6 Yi, Li
7 Rosen, Craig A
8 Ruben, Steven
9
10 (ii) TITLE OF INVENTION: G-Protein Parathyroid Hormone receptor
11 HLTG74
12
13 (iii) NUMBER OF SEQUENCES: 8
14
15 (iv) CORRESPONDENCE ADDRESS:
16 (A) ADDRESSEE: Human Genome Sciences, Inc.
17 (B) STREET: 9410 Key West Ave
18 (C) CITY: Rockville
19 (D) STATE: MD
20 (E) COUNTRY: USA
21 (F) ZIP: 20850
22
23 (v) COMPUTER READABLE FORM:
24 (A) MEDIUM TYPE: Floppy disk
25 (B) COMPUTER: IBM PC compatible
26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
28
29 (vi) CURRENT APPLICATION DATA:
30 (A) APPLICATION NUMBER:
31 (B) FILING DATE:
32 (C) CLASSIFICATION:
33
34 (vi) PRIOR APPLICATION DATA:
35 (A) APPLICATION NUMBER: 08/468,011
36 (B) FILING DATE: 06-JUN-1995
37 (C) CLASSIFICATION:
38
39 (viii) ATTORNEY/AGENT INFORMATION:
40 (A) NAME: A. Anders Brookes
41 (B) REGISTRATION NUMBER: 36,373
42 (C) REFERENCE/DOCKET NUMBER: PF201D1
43
44 (ix) TELECOMMUNICATION INFORMATION:
45 (A) TELEPHONE: 201-994-1700
46 (B) TELEFAX: 201-994-1744

RAW SEQUENCE LISTING PATENT APPLICATION US/09/236,468

DATE: 02/10/1999
TIME: 16:12:13

INPUT SET: S30588.raw

47

48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 2003 base pairs

53 (B) TYPE: nucleic acid

54 (C) STRANDEDNESS: single

55 (D) TOPOLOGY: linear

56

57 (ii) MOLECULE TYPE: cDNA

58

59

60 (ix) FEATURE:

61 (A) NAME/KEY: CDS

62 (B) LOCATION: 90..1712

63

64

65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

66

67 GTTTGCTCTG GGCAGCCAAG TTGGCATATT GGAAGCTTTT TCCGGGCTCT GGAGGAGGGT 60

68

69 CCCTGCTTCT TCCTACAGCC GTTCCGGGC ATG GCC TGG CTG GGG GCG TCG CTC 113

70

Met Ala Trp Leu Gly Ala Ser Leu

71

72

73 CAC GTC TGG GGT TGG CTA ATG CTC GGC AGC TGC CTC CTG GCC AGA GCC 161

74

His Val Trp Gly Trp Leu Met Leu Gly Ser Cys Leu Leu Ala Arg Ala

75

76

77 CAG CTG GAT TCT GAT GGC ACC ATC ACT ATA GAG GAG CAG ATT GTC CTT 209

78

Gln Leu Asp Ser Asp Gly Thr Ile Thr Ile Glu Glu Gln Ile Val Leu

79

80

81 GTG CTG AAA GCG AAA GTA CAA TGT GAA CTC AAC ATC ACA GCT CAA CTC 257

82

Val Leu Lys Ala Lys Val Gln Cys Glu Leu Asn Ile Thr Ala Gln Leu

83

84

85 CAG GAG GGA GAA GGT AAT TGT TTC CCT GAA TGG GAT GGA CTC ATT TGT 305

86

Gln Glu Gly Glu Gly Asn Cys Phe Pro Glu Trp Asp Gly Leu Ile Cys

87

88

89 TGG CCC AGA GGA ACA GTG GGG AAA ATA TCG GCT GTT CCA TGC CCT CCT 353

90

Trp Pro Arg Gly Thr Val Gly Lys Ile Ser Ala Val Pro Cys Pro Pro

91

92

93 TAT ATT TAT GAC TTC AAC CAT AAA GGA GTT GCT TTC CGA CAC TGT AAC 401

94

Tyr Ile Tyr Asp Phe Asn His Lys Gly Val Ala Phe Arg His Cys Asn

95

96

97 CCC AAT GGA ACA TGG GAT TTT ATG CAC AGC TTA AAT AAA ACA TGG GCC 449

98

Pro Asn Gly Thr Trp Asp Phe Met His Ser Leu Asn Lys Thr Trp Ala

99

INPUT SET: S30588.raw

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|
| 100 | | | | | | | | | | | | | | | | | | |
| 101 | AAT | TAT | TCA | GAC | TGC | CTT | CGC | TTT | CTG | CAG | CCA | GAT | ATC | AGC | ATA | GGA | | 497 |
| 102 | Asn | Tyr | Ser | Asp | Cys | Leu | Arg | Phe | Leu | Gln | Pro | Asp | Ile | Ser | Ile | Gly | | |
| 103 | | | | | 125 | | | | | 130 | | | | | 135 | | | |
| 104 | | | | | | | | | | | | | | | | | | |
| 105 | AAG | CAA | GAA | TTC | TGT | GAA | CGC | CTC | TAT | GTA | ATG | TAT | ACC | GTT | GGC | TAC | | 545 |
| 106 | Lys | Gln | Glu | Phe | Cys | Glu | Arg | Leu | Tyr | Val | Met | Tyr | Thr | Val | Gly | Tyr | | |
| 107 | | | | 140 | | | | | 145 | | | | | 150 | | | | |
| 108 | | | | | | | | | | | | | | | | | | |
| 109 | TCC | ATC | TCT | TTT | GGT | TCC | TTG | GCT | GTG | GCT | ATT | CTC | ATC | ATT | GGT | TAC | | 593 |
| 110 | Ser | Ile | Ser | Phe | Gly | Ser | Leu | Ala | Val | Ala | Ile | Leu | Ile | Ile | Gly | Tyr | | |
| 111 | | | 155 | | | | | 160 | | | | | 165 | | | | | |
| 112 | | | | | | | | | | | | | | | | | | |
| 113 | TTC | AGA | CGA | TTG | CAT | TGC | ACT | AGG | AAC | TAT | ATC | CAC | ATG | CAC | TTA | TTT | | 641 |
| 114 | Phe | Arg | Arg | Leu | His | Cys | Thr | Arg | Asn | Tyr | Ile | His | Met | His | Leu | Phe | | |
| 115 | | 170 | | | | | 175 | | | | | 180 | | | | | | |
| 116 | | | | | | | | | | | | | | | | | | |
| 117 | GTG | TCT | TTC | ATG | CTG | AGA | GCT | ACA | AGC | ATC | TTT | GTC | AAA | GAC | AGA | GTA | | 689 |
| 118 | Val | Ser | Phe | Met | Leu | Arg | Ala | Thr | Ser | Ile | Phe | Val | Lys | Asp | Arg | Val | | |
| 119 | 185 | | | | | 190 | | | | | 195 | | | | | 200 | | |
| 120 | | | | | | | | | | | | | | | | | | |
| 121 | GTC | CAT | GCT | CAC | ATA | GGA | GTA | AAG | GAG | CTG | GAG | TCC | CTA | ATA | ATG | CAG | | 737 |
| 122 | Val | His | Ala | His | Ile | Gly | Val | Lys | Glu | Leu | Glu | Ser | Leu | Ile | Met | Gln | | |
| 123 | | | | | 205 | | | | | 210 | | | | | 215 | | | |
| 124 | | | | | | | | | | | | | | | | | | |
| 125 | GAT | GAC | CCA | CAA | AAT | TCC | ATT | GAG | GCA | ACT | TCT | GTG | GAC | AAA | TCA | CAA | | 785 |
| 126 | Asp | Asp | Pro | Gln | Asn | Ser | Ile | Glu | Ala | Thr | Ser | Val | Asp | Lys | Ser | Gln | | |
| 127 | | | | 220 | | | | | 225 | | | | | 230 | | | | |
| 128 | | | | | | | | | | | | | | | | | | |
| 129 | TAT | ATC | GGG | TGC | AAG | ATT | GCT | GTT | GTG | ATG | TTT | ATT | TAC | TTC | CTG | GCT | | 833 |
| 130 | Tyr | Ile | Gly | Cys | Lys | Ile | Ala | Val | Val | Met | Phe | Ile | Tyr | Phe | Leu | Ala | | |
| 131 | | | 235 | | | | | 240 | | | | | 245 | | | | | |
| 132 | | | | | | | | | | | | | | | | | | |
| 133 | ACA | AAT | TAT | TAT | TGG | ATC | CTG | GTG | GAA | GGT | CTC | TAC | CTG | CAT | AAT | CTC | | 881 |
| 134 | Thr | Asn | Tyr | Tyr | Trp | Ile | Leu | Val | Glu | Gly | Leu | Tyr | Leu | His | Asn | Leu | | |
| 135 | | 250 | | | | | 255 | | | | | 260 | | | | | | |
| 136 | | | | | | | | | | | | | | | | | | |
| 137 | ATC | TTT | GTG | GCT | TTC | TTT | TCG | GAC | ACC | AAA | TAC | CTG | TGG | GGC | TTC | ATC | | 929 |
| 138 | Ile | Phe | Val | Ala | Phe | Phe | Ser | | | | | | | | | | | |

RAW SEQUENCE LISTING PATENT APPLICATION US/09/236,468

DATE: 02/10/1999

TIME: 16:12:14

INPUT SET: S30588.raw

| | | |
|-----|--|------|
| 153 | AAT TTT ATT CTG TTT CTG AAT ACG GTT AGA GTT CTA GCT ACC AAA ATC | 1121 |
| 154 | Asn Phe Ile Leu Phe Leu Asn Thr Val Arg Val Leu Ala Thr Lys Ile | |
| 155 | 330 335 340 | |
| 156 | | |
| 157 | TGG GAG ACC AAT GCA GTT GGG CAT GAC ACA AGG AAG CAA TAC AGG AAA | 1169 |
| 158 | Trp Glu Thr Asn Ala Val Gly His Asp Thr Arg Lys Gln Tyr Arg Lys | |
| 159 | 345 350 355 360 | |
| 160 | | |
| 161 | CTG GCC AAA TCG ACA CTG GTC CTG GTC CTA GTC TTT GGA GTG CAT TAC | 1217 |
| 162 | Leu Ala Lys Ser Thr Leu Val Leu Val Leu Val Phe Gly Val His Tyr | |
| 163 | 365 370 375 | |
| 164 | | |
| 165 | ATC GTG TTC GTG TGC CTG CCT CAC TCC TTC ACT GGG CTC GGG TGG GAG | 1265 |
| 166 | Ile Val Phe Val Cys Leu Pro His Ser Phe Thr Gly Leu Gly Trp Glu | |
| 167 | 380 385 390 | |
| 168 | | |
| 169 | ATC CGC ATG CAC TGT GAG CTC TTC TTC AAC TCC TTT CAG GGT TTC TTT | 1313 |
| 170 | Ile Arg Met His Cys Glu Leu Phe Phe Asn Ser Phe Gln Gly Phe Phe | |
| 171 | 395 400 405 | |
| 172 | | |
| 173 | GTG TCT ATC ATC TAC TGC TAC TGC AAT GGA GAG GTT CAG GCA GAG GTG | 1361 |
| 174 | Val Ser Ile Ile Tyr Cys Tyr Cys Asn Gly Glu Val Gln Ala Glu Val | |
| 175 | 410 415 420 | |
| 176 | | |
| 177 | AAG AAG ATG TGG AGT CGG TGG AAT CTC TCC GTG GAC TGG AAA AGG ACA | 1409 |
| 178 | Lys Lys Met Trp Ser Arg Trp Asn Leu Ser Val Asp Trp Lys Arg Thr | |
| 179 | 425 430 435 440 | |
| 180 | | |
| 181 | CCG CCA TGT GGC AGC CGC AGA TGC GGC TCA GTG CTC ACC ACC GTG ACG | 1457 |
| 182 | Pro Pro Cys Gly Ser Arg Arg Cys Gly Ser Val Leu Thr Thr Val Thr | |
| 183 | 445 450 455 | |
| 184 | | |
| 185 | CAC AGC ACC AGC AGC CAG TCA CAG GTG GCG GCA GCA CAC GCA TGG TGC | 1505 |
| 186 | His Ser Thr Ser Ser Gln Ser Gln Val Ala Ala Ala His Ala Trp Cys | |
| 187 | 460 465 470 | |
| 188 | | |
| 189 | TTA TCT CTG GCA AAG CTG CCA AGA TCG CCA GCA GAC AGC CTG ACA GCC | 1553 |
| 190 | Leu Ser Leu Ala Lys Leu Pro Arg Ser Pro Ala Asp Ser Leu Thr Ala | |
| 191 | 475 480 485 | |
| 192 | | |
| 193 | ACA TCA CTT TAC CTG GCT ATG TCT GGA GTA ACT CAG AGC AGG ACT GCC | 1601 |
| 194 | Thr Ser Leu Tyr Leu Ala Met Ser Gly Val Thr Gln Ser Arg Thr Ala | |
| 195 | 490 495 500 | |
| 196 | | |
| 197 | TCA CAC ACT CTC TCC ACG AGG AGC AAC AAG GAA GAT AGT GGG AGG CAG | 1649 |
| 198 | Ser His Thr Leu Ser Thr Arg Ser Asn Lys Glu Asp Ser Gly Arg Gln | |
| 199 | 505 510 515 520 | |
| 200 | | |
| 201 | AGA GAT GAT ATT CTA ATG GAG AAG CCT TCC AGG CCT ATG GAA TCT AAC | 1697 |
| 202 | Arg Asp Asp Ile Leu Met Glu Lys Pro Ser Arg Pro Met Glu Ser Asn | |
| 203 | 525 530 535 | |
| 204 | | |
| 205 | CCA GAC ACT GAA GGA TGACAAGGAG AAAC TGAGGA TGTTCTCTGA ATGGACATGT | 1752 |

RAW SEQUENCE LISTING PATENT APPLICATION US/09/236,468

DATE: 02/10/1999
TIME: 16:12:14

INPUT SET: S30588.raw

206 Pro Asp Thr Glu Gly
207 540
208
209 GTGGCTGACT TTCATGGGCT GGTCCAATGG CTGGTTGTGT GAGAGGGCTT GGCTGATACT 1812
210
211 CCTATGCTTG AGCACAAAGG CTGAAAATTC AGTTAAGGTG TTACTTAATA ATAGTTTTTA 1872
212
213 GGCTCCATGA ATGGGCTCCT GTAAATACTA ACGACATGAA AATGCAAGTG TCAATGGAGT 1932
214
215 AGTTTATTAC CTTCTATTGG CATCAAGTTT TCCTCTAAAT TAATGTATGG TATTTGCTCT 1992
216
217 GTGATTGTTC A 2003
218
219

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 541 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

230
231 Met Ala Trp Leu Gly Ala Ser Leu His Val Trp Gly Trp Leu Met Leu
232 1 5 10 15
233
234 Gly Ser Cys Leu Leu Ala Arg Ala Gln Leu Asp Ser Asp Gly Thr Ile
235 20 25 30
236
237 Thr Ile Glu Glu Gln Ile Val Leu Val Leu Lys Ala Lys Val Gln Cys
238 35 40 45
239
240 Glu Leu Asn Ile Thr Ala Gln Leu Gln Glu Gly Glu Gly Asn Cys Phe
241 50 55 60
242
243 Pro Glu Trp Asp Gly Leu Ile Cys Trp Pro Arg Gly Thr Val Gly Lys
244 65 70 75 80
245
246 Ile Ser Ala Val Pro Cys Pro Pro Tyr Ile Tyr Asp Phe Asn His Lys
247 85 90 95
248
249 Gly Val Ala Phe Arg His Cys Asn Pro Asn Gly Thr Trp Asp Phe Met
250 100 105 110
251
252 His Ser Leu Asn Lys Thr Trp Ala Asn Tyr Ser Asp Cys Leu Arg Phe
253 115 120 125
254
255 Leu Gln Pro Asp Ile Ser Ile Gly Lys Gln Glu Phe Cys Glu Arg Leu
256 130 135 140
257
258 Tyr Val Met Tyr Thr Val Gly Tyr Ser Ile Ser Phe Gly Ser Leu Ala

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/236,468

DATE: 02/10/1999
TIME: 16:12:14

INPUT SET: S30588.raw

Line

Error

Original Text